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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,376	09/20/2005	Hiroshi Sawada	JCLA16514	4576
J. C. Patents	7590 03/26/201	0	EXAM	INER
Suite 250 4 Venture			HEINRICH, SAMUEL M	
Irvine, CA 926	18		ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			03/26/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/529,376	SAWADA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Samuel M. Heinrich	3742		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 15 D This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-7 and 9-17 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 and 9-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.			
··· <u> </u>				
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 28 March 2005 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) \(\sum \) Notice of References Cited (PTO-892)	4)	(PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, "spontaneous formation" is not a clear description. Spontaneous implies without an external cause, however the claim recites particular laser beam irradiation.

Claim 1, "an overlapped scanning" is not a clear limitation. Is this a plurality of scans? Dependent claims appear to further define this limitation, but do not clarify the limitation.

Claim 2, "according to a laser spot diameter and a laser oscillating frequency" does not clearly further define earlier limitations. It appears to not be idiomatic language.

Claim 7, "an overlapped scanning" is not a clear limitation. Is this a plurality of scans? Dependent claims appear to further define this limitation, but do not clarify the limitation.

Claim 7, "spontaneous formation" is not a clear description. Spontaneous implies without an external cause, however the claim recites particular laser beam irradiation.

Claim 7, lines 4-7 are not clear. For instance, what feature is being further limited by "without heat-treating the surface of the material"? Is the earlier or later described feature being further limited?

Claim 10, "disposing the grating structure" is not a clear description of forming.

Claim 13, "condense the laser beam, thus forming the grating structure in a more extensive area" is not a clear description. How does it relate to the description in claim 6?

All claims must be reviewed for clear idiomatic descriptions.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Demchuk A V et al. See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over P. Milani et al. See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP59165428A. See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over WO0216149A. See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over USPN 5,417,896 (Fischer et al). See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over USPN 5,072,091 (Nagata et al).

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See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over M. Bolle et al. See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 1-7 and 9-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP04091875A. See reference and description submitted as Supplementary European Search Report (submitted September 05, 2008).

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the references applied 102(b)/103(a) above and further in view of JP59168403A (submitted September 05, 2008). See Abstract, Figures.

Response to Arguments

Applicant's arguments with respect to claims 1-7 and 9-17 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel M Heinrich/ Primary Examiner, Art Unit 3742